

WHAT IS CLAIMED IS:

1. A liquid crystal display device comprising:  
a pixel section having pixels arranged in a matrix which include active elements, and signal lines connected to columns of pixels;

first control means for switching on the active elements for all the pixels in said pixel section when said liquid crystal display device is in a power-off state; and

second control means for setting, in the power-off state, all the signal lines to each have a potential equal to the potential of common electrodes of the pixels.

2. A liquid crystal display device according to claim 1, wherein said first control means is a vertical scanning system which sequentially switches on the active elements in units of rows when said liquid crystal display device is in a normal display mode, and which simultaneously switches on the active elements in the power-off state.

3. A liquid crystal display device according to claim 2, wherein said second control means is a horizontal scanning system which, in the normal display mode, supplies a display signal to pixels in a row selected by said vertical scanning system, and which, in the power-off state,

supplies all the signal lines with a potential equal to the potential of the common electrodes of the pixels.

4. A liquid crystal display device according to claim 3, wherein said second control means is a precharging scanning system which, in the normal display mode, supplies a precharging signal to the pixels in the row selected by said vertical scanning system before said horizontal scanning system supplies the display signal to the pixels in the row selected by said vertical scanning system.

5. A liquid crystal display device comprising:

a pixel section having pixels arranged in a matrix which include active elements, and signal lines connected to columns of pixels; and

selecting means for selecting one of a first power-off mode and a second power-off mode in accordance with the type of power-off state of said liquid crystal display device,

wherein:

in the first power-off mode, in the power-off state, white level signals or black level signals are written in all the pixels while the pixels in said pixel section are first selected in a sequential manner in units of rows; and

in the second power-off mode, in the power-off state, the active elements for all the pixels in said pixel section

are switched on and all the signal lines are set to each have a potential equal to the potential of common electrodes of the pixels.

6. A liquid crystal display device according to claim 5, further comprising:

a power-off button; and

a power-supply battery,

wherein said selecting means selects the first power-off mode when the power-off state is caused by operating said power-off button, and selects the second power-off mode when the power-off state is caused by removing said power-supply battery.

7. A method for controlling a liquid crystal display device having pixels arranged in a matrix which include active elements, and signal lines connected to columns of pixels, said method comprising the steps of:

switching on the active elements for all the pixels;

and

setting all the signal lines to each have a potential equal to the potential of common electrodes of the pixels.

8. A method for controlling a liquid crystal display device having pixels arranged in a matrix which include

active elements, signal lines connected to columns of pixels, a power-off button, and a power-supply battery, said method comprising the steps of:

for a power-off state caused by operating the power-off button, writing white level signals or black level signal to all the pixels while first selecting the pixels in a sequential manner; and

for a power-off state caused by removing the power-supply battery, switching on the active elements for all the pixels, and setting all the signal lines to each have a potential equal to the potential of common electrodes of the pixels.

9. A portable terminal comprising a liquid crystal display device used as a screen display unit, said liquid crystal display device comprising:

a pixel section having pixels arranged in a matrix which include active elements, and signal lines connected to columns of pixels;

first control means for switching on the active elements for all the pixels in a power-off state; and

second control means for setting, in the power-off state, all the signal lines to each have a potential equal to the potential of common electrodes of the pixels.

10. A portable terminal comprising a liquid crystal display device used as a screen display unit, said liquid crystal display device comprising:

a pixel section having pixels arranged in a matrix which include active elements, and signal lines connected to columns of pixels; and

selecting means for selecting one of a first power-off mode and a second power-off mode in accordance with the type of power-off state,

wherein:

in the first power-off mode, in the power-off state, white level signals or black level signals are written in all the pixels while the pixels in said pixel section are first selected in a sequential manner in units of rows; and

in the second power-off mode, in the power-off state, the active elements for all the pixels in said pixel section are switched on and all the signal lines are set to each have a potential equal to the potential of common electrodes of the pixels.